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**FACSIMILE COVER SHEET****TO:** Examiner C. Stulberger  
Group Art Unit 2132**FROM:** Michael K. O'Neill**RE:** U.S. Application No. 09/411,070  
Atty. Docket No.: 03630.000229**FAX NO.:** (703) 872-9306**DATE:** February 18, 2005**NO. OF PAGES:** 5  
(including cover page)**TIME:** 3:40**SENT BY:** *Harmon***MESSAGE**

Attached is a Response to Final Rejection and Statement of Substance of Interview, responsive to the final Office Action dated December 6, 2004.

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Response Under 37 C.F.R. § 1.116  
Group Art Unit 2132, Expedited Procedure

03630.000229

PATENT APPLICATION

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: )  
: Examiner: C. Stulberger  
ROYCE E. SLICK, et al. )  
: Group Art Unit: 2132  
Application No.: 09/411,070 )  
: Filed: October 4, 1999 )  
: For: TARGETED SECURE )  
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: February 18, 2005

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RESPONSE TO FINAL REJECTION  
AND  
STATEMENT OF SUBSTANCE OF INTERVIEW

Sir:

This is a Response to the Office Action dated December 6, 2004, which entered a final rejection of all claims under 35 U.S.C. § 103(a) primarily over U.S. Patent 5,633,932 (Davis) in view of U.S. Patent 5,956,407 (Slavin), or over U.S. Patent 6,378,070 (Chan) in view of Slavin. Claims 1 to 104 and 122 to 140 are pending in the application. Reconsideration and further examination are respectfully requested.

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February 18, 2005  
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Michael K. O'Neill, Reg. No. 32,622  
(Name of Attorney for Applicant)

Signature

February 18, 2005  
Date of Signature

The undersigned thanks Examiner Stulberger and Supervisory Examiner Barron for the courtesies and thoughtful treatment afforded during a personal interview conducted on February 16, 2005. A statement of the substance of the interview follows.

It was explained at the interview that the invention involves a double-encryption using first and second pairs of private-keys/public keys. According to one feature of the invention, the private key of the first private-key/public key pair is primarily in the sole possession of an intended image output device, whereas the private key of the second private-key/public key pair is primarily in the sole possession of the intended recipient of the image. It was further explained that one advantageous effect of this feature was an added degree of assurance in a secure printing environment: since the first private key is primarily in the sole possession of the intended image output device there is assurance that a print job could not successfully be intercepted by an unintended image output device; and since the second private key is primarily in the sole possession of the intended recipient of the image, there is assurance that an unauthorized person could not obtain the printed image even from the intended image output device.

The rejection relies on the secondary reference to Slavin (at column 13) which shows a double-encryption process based on first and second private-key/public key pairs. It was agreed at the interview, however, that Slavin was deficient in that it did not show that the private keys of the private-key/public key pairs are primarily in the sole possession of different entities. As a consequence, Slavin did not obtain the advantageous effect of the invention since even an unintended or unauthorized recipient could obtain a printed copy of a secure document.

A question arose during the interview of the meaning of the qualifier "primarily" in the phrase "primarily in the sole possession...". The word "primarily" was chosen deliberately to allow for the possibility that others with authorization or permission might also have possession the private key, but the full phrase of "primarily in the sole possession ..." clearly is not the same as the arrangement of Slavin in which both private keys are held exclusively by the exact same entity. This meaning is consistent with that explained in the specification, such as at lines 2 through 11 on page 6:

"In the preferred embodiment, the second key is contained in a smart-card which is in the possession of the intended recipient. Thus, the second key is primarily accessible only with permission by the intended recipient. Likewise, the third key is preferably maintained in a smart-chip which is maintained internally in the intended image output device, thereby being shielded from access by devices other than the intended image output device."

Finally, it was agreed at the interview that upon filing of these remarks, the final rejection would be withdrawn and an updated search would be conducted. These actions are respectfully requested.

Applicants' undersigned attorney may be reached in our Costa Mesa,  
California office at (714) 540-8700. All correspondence should continue to be directed to  
our below-listed address.

Respectfully submitted,



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